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## Design Aerospace Engineer

*Four years' accomplishment engineering experience in the aerospace industry*

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Dedicated and highly motivated Design Aerospace Engineer with four years of professional experience in CAD/CAE with a vast range of knowledge in mechanical principles and design standards as well as 2D and 3D modeling tools (SOLIDWORKS, CATIA V5). Comprehensive understanding of design and manufacturing of machined and sheet metal parts together with robust background in creating drawings for manufacturability/assembly and GD&T. Proficient with FEA and CFD tools (STAR-CCM+, NASTRAN, PATRAN); experienced in analyzing problems and offering mechanical solutions to help alleviate them. Highly organized.

### Highlights of Expertise

- Design & Development of Products
- Cost-effective solutions and resolutions
- Aircraft Structure Designs
- 14 CFR Part 21, 23, 25, 27, 29, 43, 45, 145
- Finite Element Analysis
- Team Leadership & Development
- Cross-Team Collaboration
- Knowledgeable in QMS Part 137 + AS9100

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## Career Experience

### AMS HELI DESIGN

*Manage all phases of the design process for Helicopter Emergency Medical Services products, components, assemblies, and subassemblies. Tasks include FEA, drafting, dimensioning, providing proper tolerances, creating prototypes, documenting, and analyzing results.*

#### **DESIGN AEROSPACE ENGINEER** (July 2019 to June 2021) - Denison, Texas

- ◆ Design and develop new interior systems to be installed on existing large and small aircraft and rotorcraft.
- ◆ Create 3D models, FEA studies, part, and assembly drawings, BOM, work instructions for three STC projects.
- ◆ Prepare and execute static load tests for FAA component certification.
- ◆ Work in a team of five engineers.
- ◆ Obtained 2 STC's for cabin interiors + ANAC + EASA validation.
- ◆ Perform CFD simulations on complex systems, such as Oxygen and Medical Air supply.

### AEROSEKUR S.p.A

*Design and develop Emergency survival systems for large scale international helicopter manufacturers. Projects achieved within the Research & Development office at Aero Sekur S.p.A, Airborne Division.*

#### **DESIGN AEROSPACE ENGINEER** (January 2018 to July 2019) – Rome area, Italy

- ◆ Design Emergency Floatation and Life raft Systems.
- ◆ Perform CFD simulations using STAR-CCM+ software for ditching maneuver and floating of Helicopter in water. Prepare and generate mesh, create test proposals and concepts, predict loads and wave generation.
- ◆ Campaign Testing and Reporting. Travel to testing sites for full commissioning.

### AVIOINTERIORS S.p.A

*Work with the engineering certification office for aircraft cabin interiors and passenger seats.*

#### **CERTIFICATION ENGINEER INTERN** (December 2017 to January 2018) – Rome area, Italy

- ◆ Support design and certification activities of aircraft seats by preparing necessary documentation (Test Plan, Test Report, Technical Report, Inspection Report).
- ◆ Prepare and execute dynamic and static tests.

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## Education

### Bachelor's Degree in Aerospace Engineering

*Università La Sapienza di Roma, Italy*

### Master's Degree in Aeronautical Engineering

*Università La Sapienza di Roma, Italy*

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## Software

SOLIDWORKS + CATIA V5 + AUTOCAD  
NASTRAN + PATRAN + STAR-CCM+ + MS Office

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## Languages

ITALIAN + ENGLISH + SPANISH

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